

SEQ ID NO.1FIG. 1 a

GAATTCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAAGCTAGCAGCAAACC	59(UPPER:SEQ ID NO. 19(LOWER:SEQ ID NO.)
TTCCTTCACTACAAAACITCATTTGCTTGGCCAAAAGAGAGTTAATTCAATGTAGACAT	119 39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTGCATTATGGAGGGCAAC	179 59
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTATTTATGCACAGGGTGGAACAG	239 79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC	299 99
M D Y Q V S S P I Y D I N Y Y T S E P C	
CAAAAAATCAATGTGAAGCAAATCGCAGCCGCCCTGCCTCCGCTCTACTCACTGGTG	359
Q K I N V K Q I A A R L L P P L Y S L V	119
TTCATCTTGGTTTGTGGCAACATGCTGGTCATCCTCATCCTGATAAAACTGCAAAAGG	419
F I F G F V G N M L V I L I L I N C K R	139
CTGAAGAGGACTGACATCTACCTGCTAACCTGGCCATCTCTGACCTGTTTCCCTT	479
L K S M T D I Y L L N L A I S D L F F L	159
CTTACTGTCCCCCTCTGGCTCACTATGCTGCCGCCAGTGGACTTTGGAAATACAATG	539
L T V P F W A H Y A A A Q W D F G N T M	179
TGTCAACTCTTGRACAGGGCTCTATTTATAGGCTTCTCTCTGGAAATCTTCTTCATCATC	599
C Q L L T G L Y F I G F F S G I F F I I	199
CTCCTGACAATCGATAGGTACCTGGCTGTCGTCCATGCTGTGTTGCTTAAAAGCCAGG	659
L L T I D R Y L A V V H A V F A L K A R	219
ACGGTCACCTTGGGGTGGTGACAAGTGTGATCACTGGGTGGCTGTGTTGCGTCT	719
T V T F G V V T S V I T W V V A V F A S	239
CTCCCAGGAATCATCTTACCAAGATCTAAAAAGAAGGTCTTCATTACACCTGCAGCTCT	779
L P G I I F T R S Q K E G L H Y T C S S	259
CATTTCCATACA	
H F P Y	

GAATTCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAAGCTAGCAGCAAACC	59(UPPER:SEQ ID NO: 19(LOWER:SEQ ID NO:
TTCCCTTCACTACAAAACCTCATGGCTGCCAAAAAGAGAGTTAATTCAATGTAGACAT	119 39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCATTCAATGGAGGGCAAC	179 59
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTATTTATGCACAGGGTGGAACAG	239 79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC	299 99
M D Y Q V S S P I Y D I N Y Y T S E P C	
CAAAAAATCAATGTGAAGCAAATCGCAGCCCGCCTCCTGCCTCCGCTCTACTCACTGGTG	359
Q K I N V K Q I A A R L L P P L Y S L V	119
TTCATCTTGGTTTGTGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGG	419
F I F G F V G N M L V I L I L I N C K R	139
CTGAAGAGCATGACTGACATCTACCTGCTAACCTGCCATCTGACCTGTTTCCCT	479 159
L K S M T D I Y L L N L A I S D L F F L	
CTTACTGTCCCCTCTGGCTCACTATGCTGCCGCCAGTGGACTTTGAAATACAATG	539
L T V P F W A H Y A A A Q W D F G N T M	179
TGTCAACTCTGACAGGGCTCTATTATAGGCCTCTCTCTGGAATCTCTCATCATC	599 199
C Q L L T G L Y F I G F F S G I F F I I	
CTCCTGACATCGATAGGTACCTGGCTGTCGTCCATGCTGTITGCTTAAAGCCAGG	659 219
L L T I D R Y L A V V H A V F A L K A R	
ACGGTCACCTTGGGTGGTGACAAGTGTGATCACTGGGTGGCTGTGTTGCGTCT	719
T V T F G V V T S V I T W V V A V F A S	239
CTCCCAGGAATCATCTTACAGATCTAAAAAGAAGGTCTCATTACACCTGCAGCTCT	779
L P G I I F T R S Q K E G L H Y T C S S	259
CATTTTCCATACAGTCAGTATCAATTCTGGAAGAATTCCAGACATTAAGATAGTCATC	839
H F P Y S Q Y Q F W K N F Q T L K I V I	279

SEQ ID NO.2 FIG.1b

TTGGGGCTGGTCTGCCGCTGCTGTATGGTCATCTGCTACTCGGAATCCTAAAACT	899
L G L V L P L L V M V I C Y S G I L K T	299
CTGCTTCGGTGTGAAATGAGAAGAAGAGGCACAGGGCTGTGAGGCTIATCTCACCATC	959
L L R C R N E K K R H R A V R L I F T I	319
ATGATTGTTATTTCTCTGGCTCCCTACAACATTGCTCTCCTGAACACCTTC	1019
M I V Y F L F W A P Y N I V L L L N T F	339
CAGGAATTCTTGCCCTGAATAATTGAGTAGCTCTAACAGGTIGGACCAAGCTATGCAG	1079
Q E F F G L N N C S S S N R L D Q A M Q	359
GTGACAGAGACTCTGGGATGACGCACTGCTGCATCAACCCCATCATCTATGCCTTGTC	1139
V T E T L G M T H C C I N P I I Y A F V	379
GGGGAGAAGTCAGAAACTACCTCTAGTCTTCTTCCAAAAGCACATTGCCAACGCTTC	1199
G E K F R N Y L L V F F Q K H I A K R F	399
TGCAAATGCTGTTCTATTTCCAGCAAGAGGCTCCCGAGCGAGCAAGCTCAGTTACACC	1259
C K C C S I F Q Q E A P E R A S S V Y T	419
CGATCCACTGGGGAGCAGGAAATATCTGTGGCTTGTGACACGGACTCAAGTGGCTGGT	1319
R S T G E Q E I S V G L *	439
GACCCAGTCAGAGTTGTGCACATGGCTTAGTTTACACAGCCTGGCTGGGGTNGG	1379
	459
TTGGNNAGGTCTTTTAAAGGAAGTTACTGTTATAGAGGGCTAAGATTATCCATT	1439
	479

TATTTGGCATCTGTTAAAGTAGATTAGATCCGAATT

SEQ ID NO.2 (SUITE)

FIG.1c

GAATTCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAAGCTAGCAGCAAACC	59 ^{UPPER:SEQ ID:}
	19 ^{LOWER:SEQ ID:}
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	39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTGCATTGAGGGCAAC	179
	59
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTATTTATGCACAGGGTGGAACAAAG	239
	79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC	299
M D Y Q V S S P I Y D I N Y Y T S E P C	99
CAAAAAATCAATGTGAAGCAAATCGCAGCCCGCCTCCTGCCTCCGCTCTACTCACTGGTG	359
Q K I N V K Q I A A R L L P P L Y S L V	119
TTCATCTTGGTTTGTGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGG	419
F I F G F V G N M L V I L I L I N C K R	139
CTGAAGAGCATGACTGACATCTACCTGCTCACCTGCCATCTGACCTGTTTCTT	479
L K S M T D I Y L L N L A I S D L F F L	159
CCTACTGTCCCCCTCTGGGCTCACTATGCTGCCGCCAGTGGACTTTGAAATACAATG	539
L T V P F W A H Y A A A Q W D F G N T M	179
TGTCAACTCTTGACAGGGCTCTATTATAGGCTTCTCTGGAATCTTCTCATCATC	599
C Q L L T G L Y F I G F F S G I F F I I	199
CTCCTGACAATCGATAGGTACCTGGCTGTCGTCCATGCTGTITGCTTTAAAAGCCAGG	659
L L T I D R Y L A V V H A V F A L K A R	219
ACGGTCACCTTGGGTGGTGACAAGTGTGATCACTGGGTGGCTGTGTTGCGTCT	719
T V T F G V V T S V I T W V V A V F A S	239
CTCCCAGGAATCATCTTACCAAGATCTAAAAAGAAGGTCTTCAATTACACCTGCAGCTCT	779
L P G I I F T R S Q K E G L H Y T C S S	259
CATTTTCCATACATTAAAGATAGTCATCTGGGGCTGGCTGCGCTGCTGTGTCATGGT	839
H F P Y I K D S H L G A G P A A A C H G	279

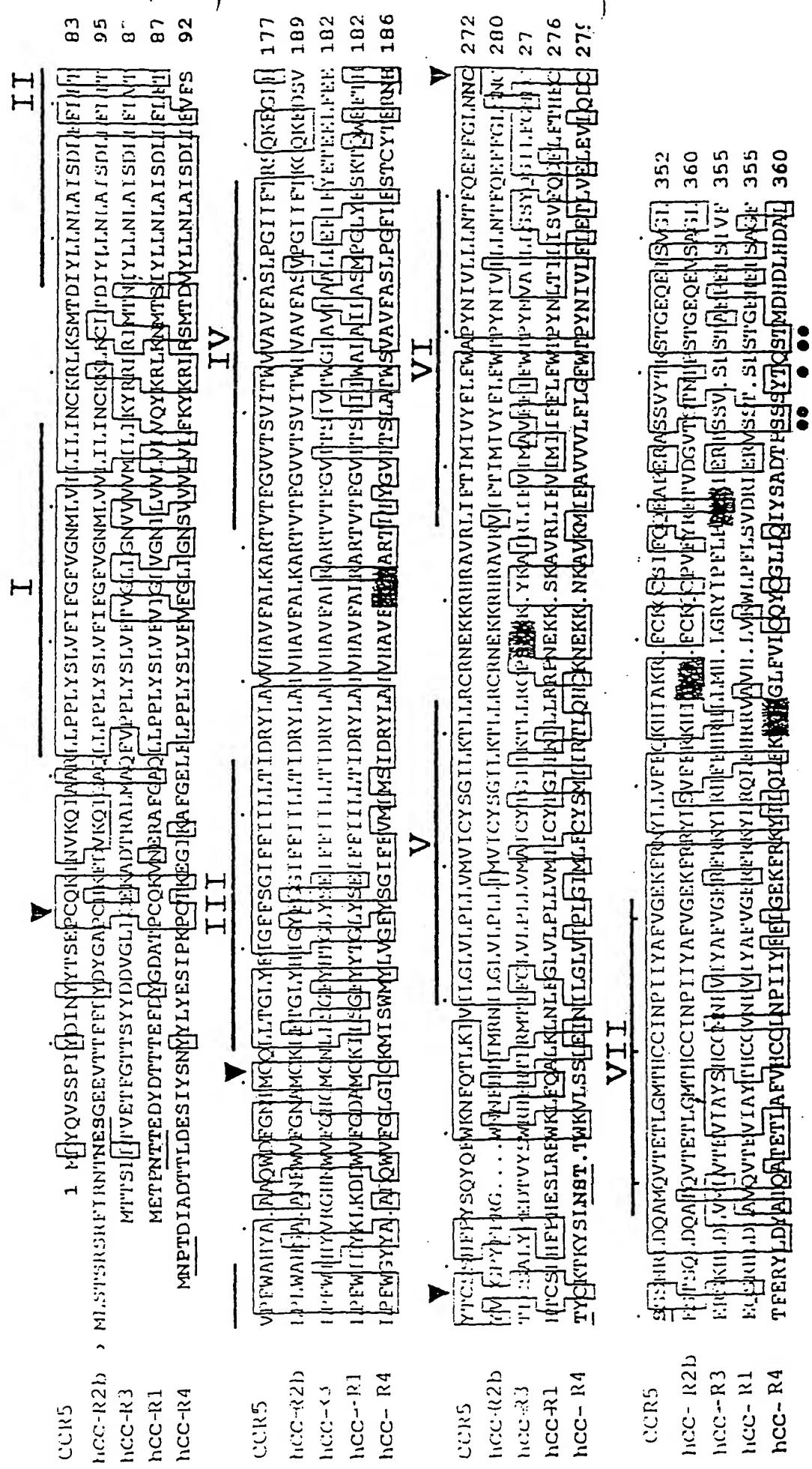
SEQ ID NO.3FIG.1d

CATCTGCTACTCGGGAAATCCTAAAAACTCTGCCTCGGTGTCGAAATGAGAAGAAGAGGCA H L L G N P K N S A S V S K *	899 299
CAGGGCTGTGAGGCTTATCTTCACCATCATGATTGTTATTTCTCTCTGGGCTCCCTA	959 319
CAACATTGTCCTCTCCTGAACACCTCCAGGAATTCTTGGCCTGAATAATTGCAGTAG	1019 339
CTCTAACAGGTTGGACCAAGCTATGCAGGTGACAGAGACTCTGGGATGACGCACTGCTG	1079 359
CATCAACCCATCATCTATGCCCTTGTCCCCAGAAGTTCAGAAACTACCTCTTAGTCCT	1139 379
CTTCCAAAAGCACATTGCCAACGCTTCTGCAAATGCTGTTCTATTTCCAGCAAGAGGC	1199 399
TCCCGAGCGAGCAAGCTCAGTTACACCCGATCCACTGGGAGGCAGGAAATATCTGTGGG	1259 419
CTTGTGACACGGACTCAAGTGGCTGGTGACCCAGTCAGAGTTGTGCACATGGCTTAGTT	1319 439
TTCATACACAGCCTGGCTGGGGTNGGTTGGNNNGAGGTCTTTTAAAGGAAGTTACT	1379 459
GTTATAGAGGGTCTAAGATTCCATTATGGCATCTGTTAAAGTAGATTAGATCC	1439 479

GAATTC

SEQ ID NO.3 (SUITE)FIG.1e

FIG. 2



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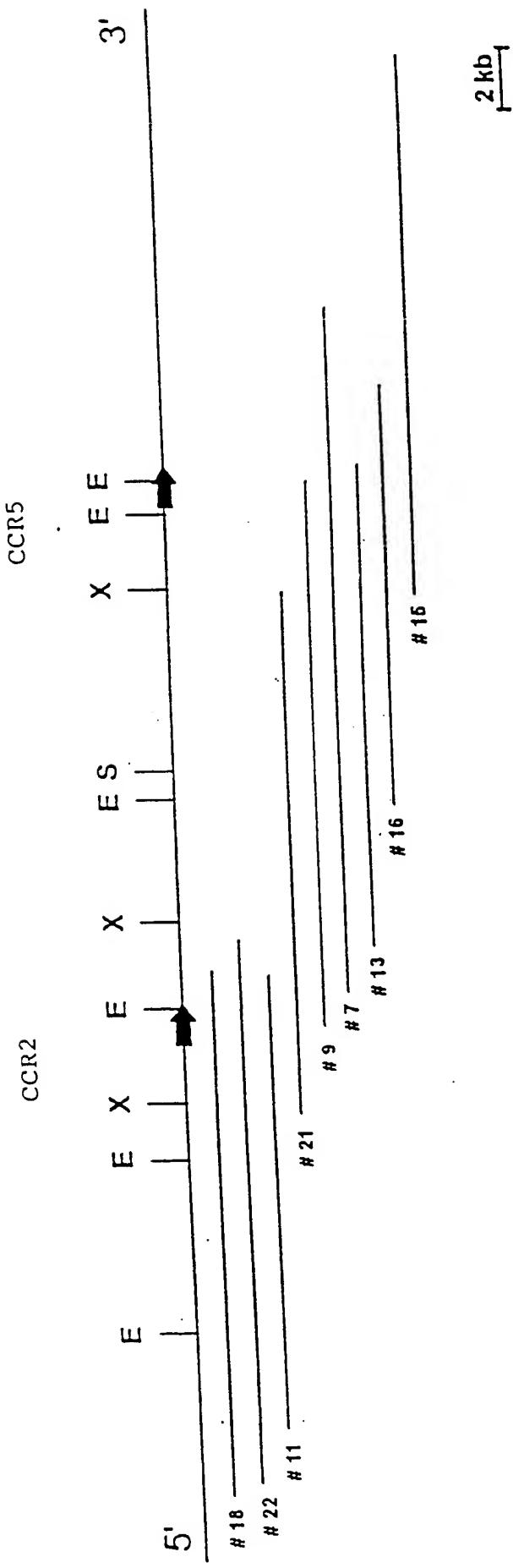
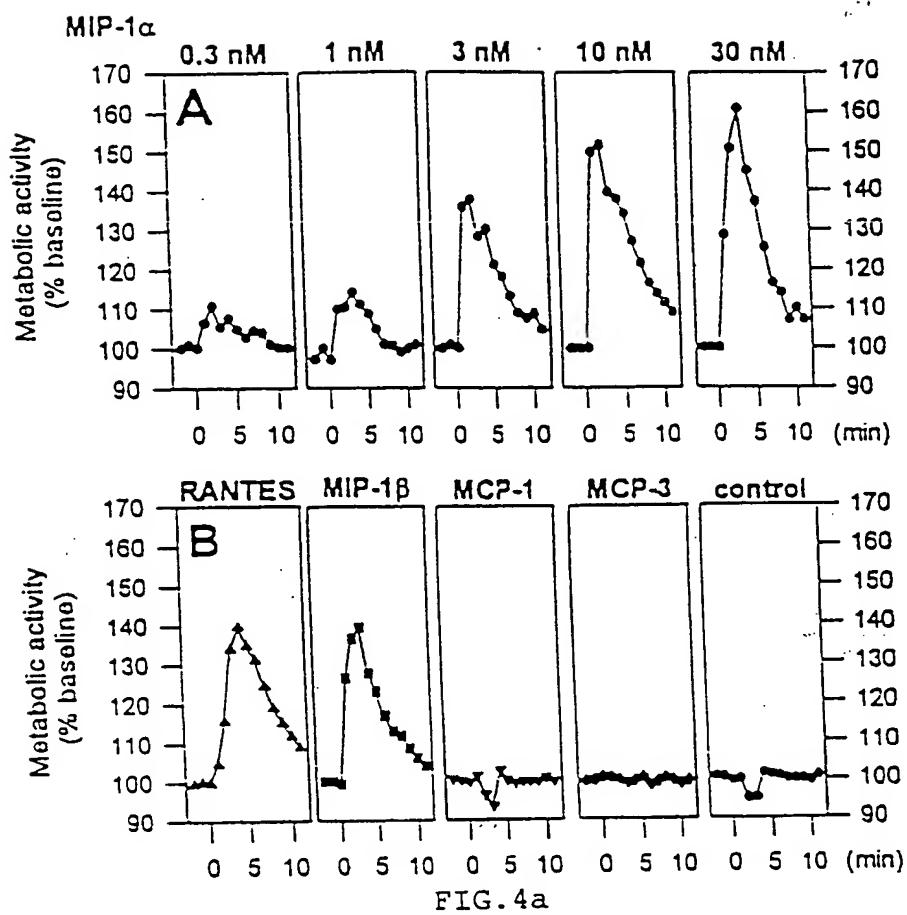
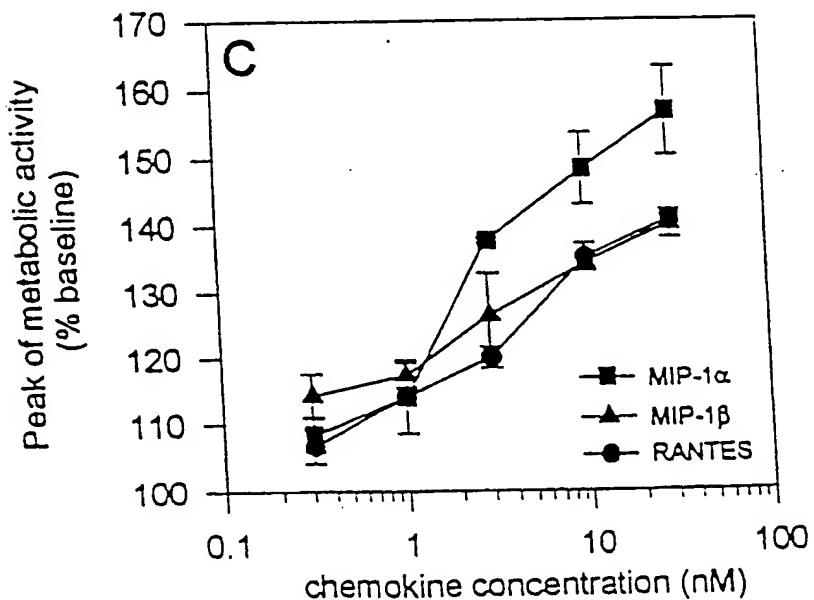


FIG. 3

FIG. 4aFIG. 4b

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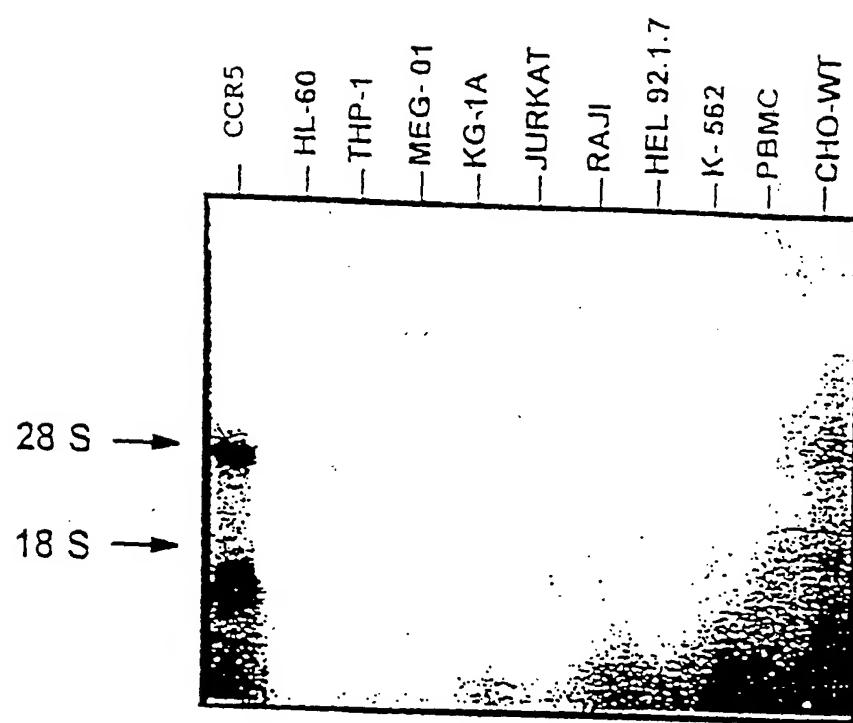
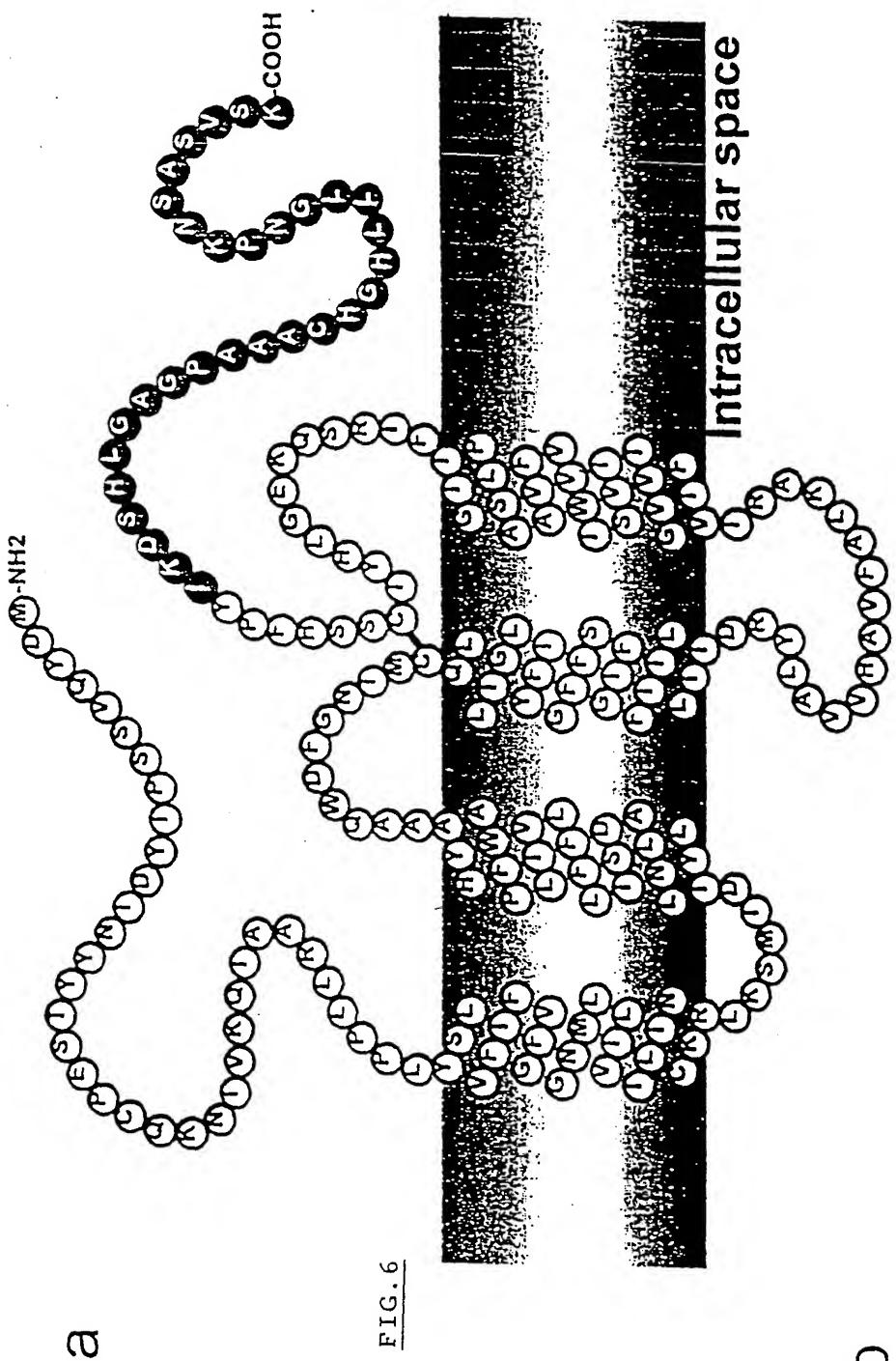


FIG. 5



CCR5 F P Y S Q Y Q F W K N F Q T L K I V I L G L V L P
TTTCCATACAGtcaatctggagaattccagacattAAAGATAGTCATCTGGGGCTGGTGCCTGGCG
 ΔCCR5 F P Y I K D S H L G A G P A deletion

A.

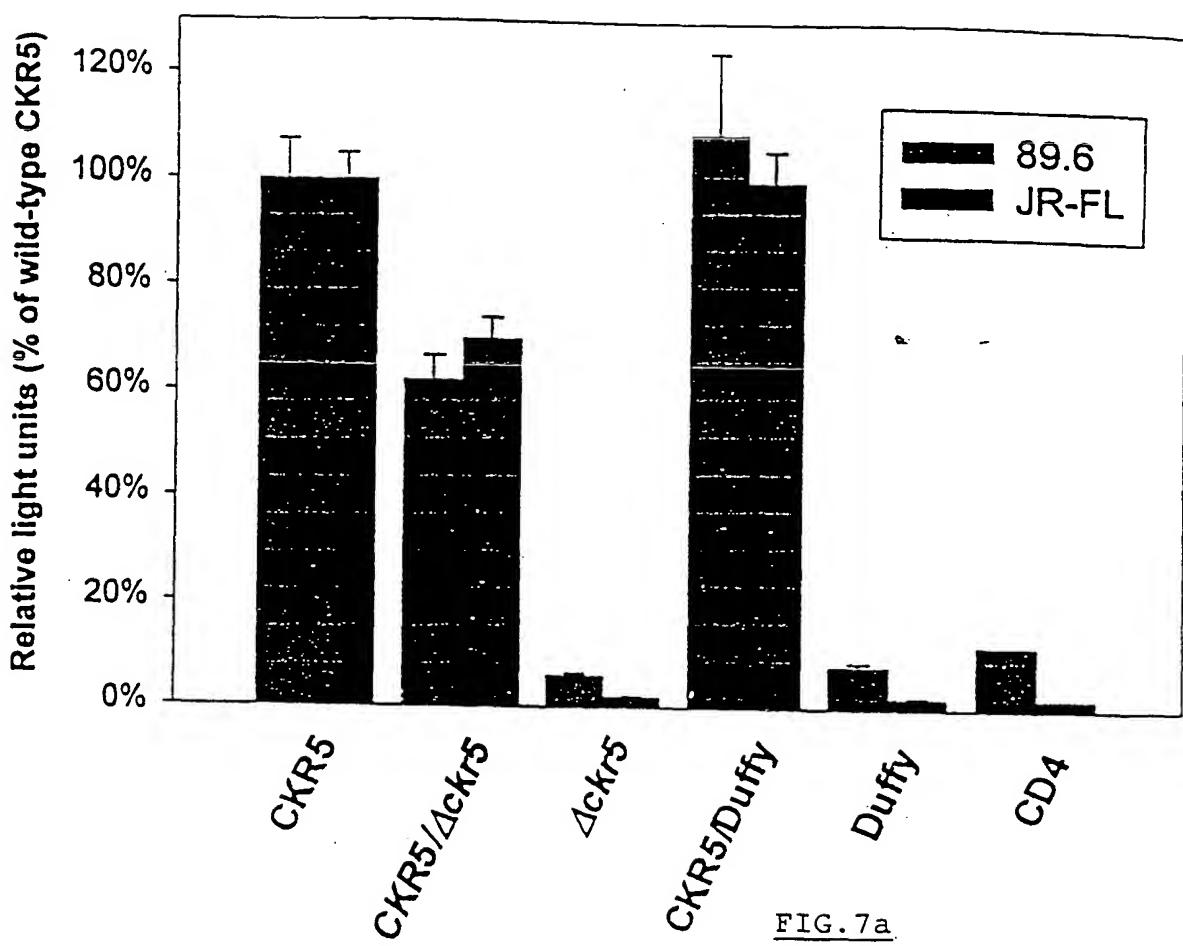


FIG. 7a

B.

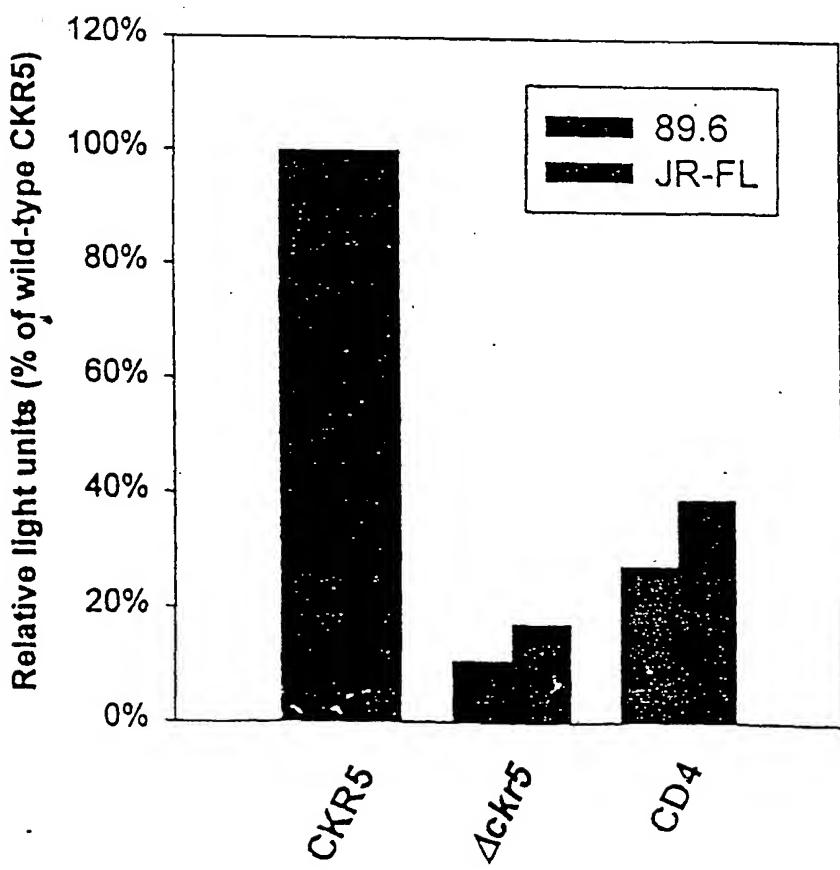


FIG. 7b

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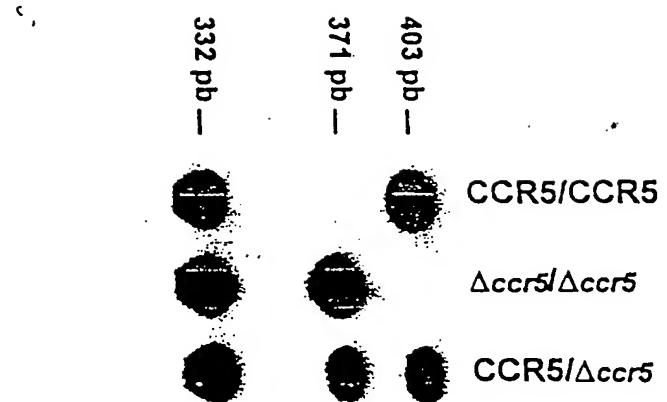


FIG. 8

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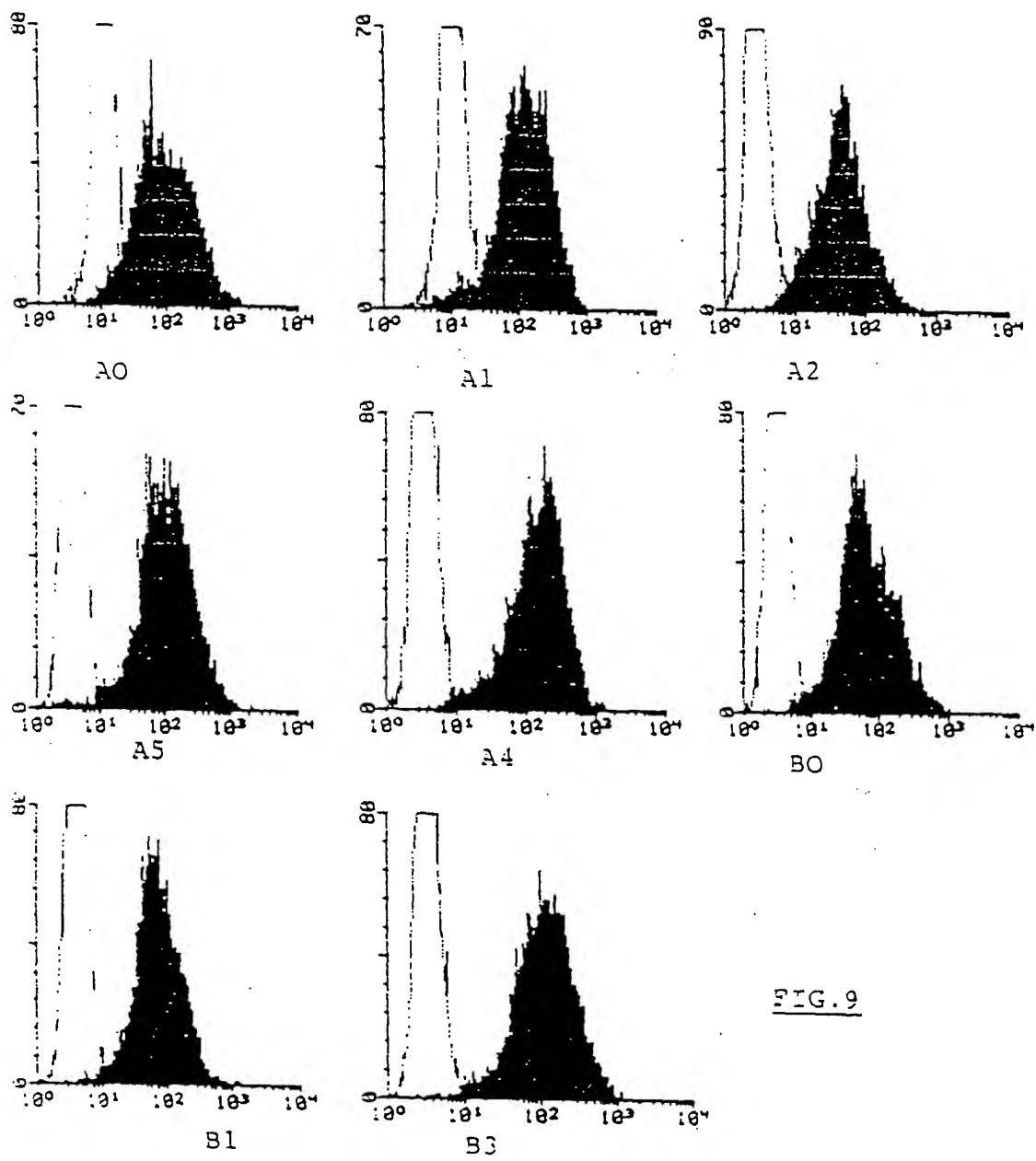


FIG. 9

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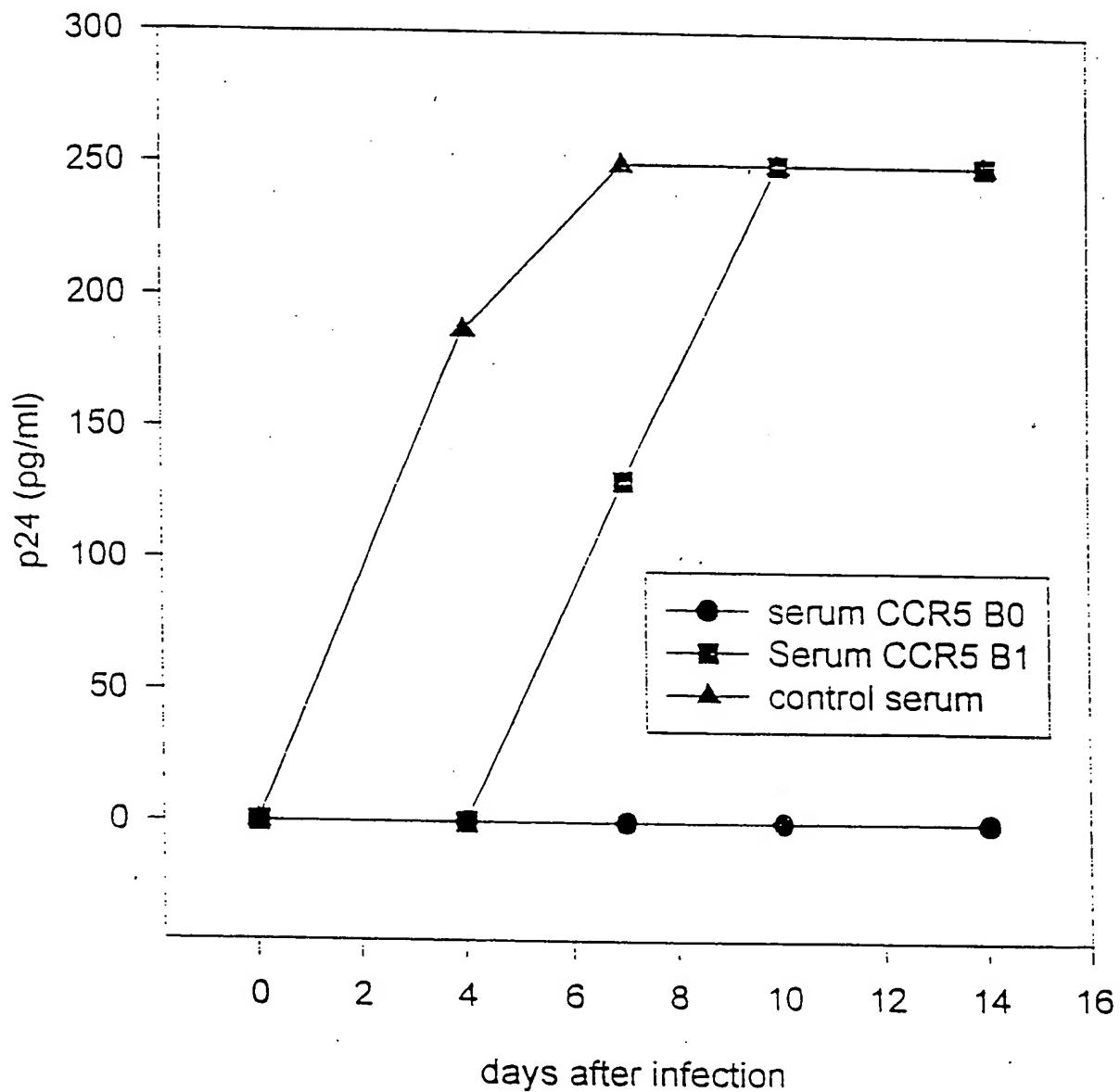


FIG.10